

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 1

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), DNA 5'untranscribed-intron 2, 821 bp

FEATURES

5'UTR	313-331
exon 1	332-364
intron 1	365-726
exon 2	727-766
intron 2	767-821>

BASE COUNT	139 a	219 c	259 g	204 t
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1	tctgagagcc	caactctgct	caatgaccat	gttcccat	gtccaagcc	acatcccctc
61	aaaaagggtc	cctctagctt	gtcctcagtg	accaggagg	cagctgagga	ccaagtacc
121	agattatccg	gtgcgccctt	tcctcccag	caaccccag	ccttcagggc	tgtagcagct
181	gagcaaatgg	gggcccctcc	ctctcattgc	ctgacacca	atcagagaga	aaccgatcct
241	ggcagggcag	ggtgcccg	gccgggccca	gaatagtgc	gccagccac	agtgtcgac
301	acttgctctc	agttggtctg	gggtgcgcca	cagtgagccc	gggctggagc	acgcactgcg
361	cagggtatgg	gggtcccagg	ggagccggag	ccggggcagc	tgaggccaga	agattgagcg
421	cacgggctgt	gaatgtgtgt	gtgggcgtgt	gtgtcttctg	gtgtgtgttt	ggtctggatt
481	ttctcgtgaa	tatgggcatg	tgcattgttg	ggcatatgta	ttgtgagtgt	gtgtggttct
541	gtgtgcctgg	gagtggttgg	atgtgtgtgt	ttctgtgtgt	gtttgtgtat	ggctgcattgt
601	ctgtgtatgg	cgtgtgtctg	agcgtgtgta	ttggtgtgca	tgggtgtgta	ggcgtgtgtt
661	cagggagaag	gggtttggga	atgtaaggca	ctttcccac	tccttcagaa	actcttctcc
721	ccacagacc	cttctggag	cagccttggg	ggttctgagc	atcaaggtag	ggagaatgcc
781	ccctccctgg	ggcctaacct	cttccccac	ttccttgccc	c	

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FIGURE 2

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), DNA intron 2-intron 4, 989 bp

FEATURES

intron 2 <1-21
 exon 3 22-177
 intron 3 178-541
 exon 4 542-945
 intron 4 946-989>

BASE COUNT 229 a 306 c 286 g 168 t

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1  caggccccat tccccttcca gagatgagct tcctagagca agaaaacagc agtcatggc
61 catcaccagc tgtgaccagc agctcagaaa gaatccgtgg gaaacggagg gccaaagcct
121 tgagatggac aaggcagaag tcggtggagg aaggggagcc accaggtcag ggggaagggtg
181 aggccaaggc cagttctggg gaggtgggag ccaggggagt gggaaatccc agaggagcct
241 gggctctggtc tctacctcag gtccctccat aacacagagt tggacccaac cttcatcttg
301 tggcctcagt ctccctacat agtagagaac aaggcactgc agtgccagag gccagcatgg
361 ccaactcaga aagatgggac agagccacta cctggggcga ctctcaggtc agcccctcac
421 ctgcaaatag ggccacagca tccaggcttc ccactgctgc tgtgagatga atggcgacag
481 cagatgagaa cgtgcttttg aagatggagt tactgtcttc tccccctcct ccccaaaca
541 ggtccccggg ccaggccagc tgctgagtcc accgggctgg aggccacatt ccccaagacc
601 acacccttgg ctcaagctga tcctgccggg gtgggcactc caccaacagg gtgggactgc
661 ctccccctctg actgtacagc ctcaagctga ggctccagca cagatgatgt ggagctggcc
721 acggagttcc cagccacaga ggctgggag tgtgagctag aaggcctgct ggaagagagg
781 cctgccctgt gcctgtcccc gcaggcccca tttcccaagc tgggctggga tgacgaactg
841 cggaaccccg gcgcccagat ctacatgcgc ttcatgcagg agcacacctg ctacgatgcc
901 atggcaacta gctccaagct agtcatcttc gacaccatgc tggaggtgag gccacggctc
961 tgcccaacct gtactcactc tccatccac

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FIGURE 3

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), intron 4-intron 10, 1722 bp

FEATURES

intron 4 <1-13
 exon 5 14-95
 intron 5 96-552
 exon 6 553-611
 intron 6 612-736
 exon 7 737-782
 intron 7 783-986
 exon 8 987-1041
 intron 8 1042-1242
 exon 9 1243-1369
 intron 9 1370-1522
 exon 10 1523-1688
 intron 10 1689-1722>

BASE COUNT 321 a 504 c 534 g 363 t

```

1 cctggcccct cagatcaaga aggccttctt tgctctggtg gccaacggtg tgcgggcagc
61 ccctctatgg gacagcaaga agcagagctt tgtgggtgag gagaggctgg ggaggtgaag
121 ggagatggag gaggtgaggg ggagatcttg tacgggtgtt ctggggctga tctctgatat
181 accacaagct tggcttcagg ccaagcccag ccaggggcca ggggtggagga aagtccatcc
241 ggagtctgca tggccagctg ggagaccctg gggctcaatt tccccatctg tggagccgct
301 atgaccagct gacacctttc acctccgcta ctgcatggcc ctgtgccata ggtgctaggg
361 agcaaatggg gggaggcagg agagaaagag cccacttctc caggcctggg gggctgcccc
421 actgtcctgt tcccacagtc ccactgtgt ctcagcacia ggacactggc aggggtgggga
481 ggggatctga ccctcaacct gccttcacc caaaggcccc gggctgacct cctccccgcc
541 cctcccctgc agggatgctg accatcactg acttcacctt ggtgctgcat cgctactaca
601 ggtccccctt ggtgaggagt gggctgggaa tcttatgggc acccagaggg gcgggggcgg
661 aggggagtc tccctggagcc tggtgcccta gaagcccacg tctttctgac ttctggagtc
721 ctgtcgatgt ctctaggctc agatctatga gattgaacaa cataagattg agacctggag
781 ggggtgagtgg ggagaggaac ccgaaaaggg gctgttggtg atgggtgggc agggcttaag
841 gtggaggatg ggcagtgggg atgtcctgga gtgaacaggg gagggacaat aggagcctcg
901 ggtgcctgac ggaagggaag ctgcctggga ctgcaagggt aggcaggtga ccggctcccc
961 tggcctgact ctggctcttt ctgcagagat ctacctgcaa ggctgcttca agcctctggt
1021 ctccatctct cctaatagata ggtgggtgtc tctgtctatt cacctgagcc tcctcctccc
1081 acagtcccct tcccagctcc cactcagctc tgaactcacc tcttcacctt aggcggcaca
1141 cagacaaggg agccttggtg ccctgccttc ctttttaggg gctgtggatg gaggttgtct
1201 ctccctagtc tgcccagagg ctacactgtc ccatctctgc agcctgtttg aagctgtcta
1261 caccctcatc aagaaccgga tccatgcctt gcctgttctt gaccgggtgt caggcaacgt
1321 actccacatc ctacacacaa aacgcctgct caagtccctg cacatctttg taagcctggg
1381 cccagtggtg aggaaggggg agacctgggc aggtgatcag agggcctgag gagtcttcag
1441 ccctagcagt cgtggggaag agctgggagc cctcttgaag ctgctggatc cctgatctcc
1501 acctgtctcc catcctaacc aggttccctc gctgccccgg ccctccttcc tctaccgcac
1561 tatccaagat ttgggcatcg gcacattccg agacttggct gtggtgctgg agacagcacc
1621 catcctgact gcactggaca tctttgtgga ccggcggtgt tctgcactgc ctgtggtcaa
1681 cgaatgtggt acccaccccc aggatgagag gctcgggctg ga

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FIGURE 4

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), intron 10-3'UTR, 1014 bp

FEATURES

intron 10 <1-41
 exon 11 42-79
 intron 11 80-249
 exon 12 250-396
 intron 12 397-739
 exon 13 740-856
 3'UTR 857-1014>

BASE COUNT 192 a 325 c 271 g 226 t

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1 cctgtctttc tccccccacc cccacaaacc accctctgca ggtcaggctg tgggcctcta
61 ttcccgcttt gatgtgattg taagtgtcgc tggaaagggt ggatgctgca gggaggctaa
121 ggggtgtggg atgggtggg ggcctctgtg gaccaggggg accttgacaa gtatgcaggg
181 gttgacatct gtagggtagg agcccaggca aggggggtgac taggagccat acttctctct
241 ctgccccagc acctggctgc ccagcaaacc tacaaccacc tggacatgag tgtgggagaa
301 gccctgaggc agaggacact atgtctggag ggagtccttt cctgccagcc ccacgagagc
361 ttgggggaag tgatcgacag gattgctcgg gagcaggtag cgtgtgccct ccattcatgc
421 cccaacaca tatagcccag tccttctcat gcacggctcc agccatccct gaacatcggg
481 cacctggcct atccttccat ttcattgacca actcctgggtg cccacactgg cctgcacctg
541 gtctgtcca tggggccctt atgccagggt tcaactgcaa ctgatcacct taggccgggc
601 acaccatccc taactgggtt ctaggagacg ctctctccct cagtcatgtt gggttgtttc
661 ccctgattct tggcaccaac ctcatgtagt gctgtagccc catggctctg cccctcact
721 gaacattgag gaccacagc tacacaggct ggtgctagtg gacgagaccc agcatctctt
781 gggcgtggtc tccctctccg acatccttca ggcactgggt ctcagccctg ctggcatcga
841 tgccctcggg gcctgagaag atctgagtc tcaatcccaa gccacctgca cacctggaag
901 ccaatgaagg gaactggaga actcagcctt catcttcccc caccgccatt tgctggttca
961 gctatgattc aggtaggctc tgcctggggc catgacacca gcctcttagt cttc

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FIGURE 5

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), cDNA including the complete cds, 1647 bp

FEATURES

CDS 20-1489

/note="predicted coding region"

/translation="MEPGLEHALRRTPSWSSLGGSEHQEMS FLEQENSSSWPSPAVTSSSERIRGKRRAKALRWTRQKS
VEEGEPGQEGGPRSRPAAESTGLEATFFKTTPLAQADPAGVGTPTGWDCPLPSDCTASAAGSSTDDELATEFPATEA
WECELEGLLEERPALCLSPQAPFPKLGWDELKPKGAQIYMRFMQEHCTYDAMATSSKLVIFDTMLEIKKAFFALVANG
VRAAPLWDSKKQSFVGMILTITDFILVLHRYRSPVLQIYEIEQHKIETWREIYLQGCCKPLVSI SPNDSLFEAVYTLIK
NRIHRLPVLDPVSGNVLHILTHKRLKFLHIFGSLLPSPFLYRTIQDLGIGTFRDLAVVLETAPILTALDIFVDRRVS
ALPVVNECGQVVGLYSRFDVIHLAAQQTYNHLDMSVGEALRQRTLCEGLVLSQPHESLGEVIDRIAREQVHRLVLVDE
TQHLGLGVSLSDILQALVLPAGIDALGA"

BASE COUNT 346 a 502 c 462 g 337 t

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1 ttggtctggg gctggccaca tggagcccgg gctggagcac gcactgcgca ggaccccttc
61 ctggagcagc cttggggggt ctgagcatca agagatgagc ttcctagagc aagaaaacag
121 cagctcatgg ccatcaccag ctgtgaccag cagctcagaa agaatccgtg ggaaacggag
181 ggccaaagcc ttgagatgga caaggcagaa gtcggtggag gaaggggagc caccaggtca
241 gggggaaggt ccccggtcca ggccagctgc tgagtccacc gggctggagg ccacattccc
301 caagaccaca cccttggtctc aagctgatcc tgccgggggtg ggactccac caacaggggtg
361 ggactgcctc ccctctgact gtacagcctc agctgcaggc tccagcacag atgatgtgga
421 gctggccacg gagttcccag ccacagaggc ctgggagtgt gagctagaag gcctgctgga
481 agagaggcct gccctgtgcc tgtccccgca ggccccattt cccaagctgg gctgggatga
541 cgaactgcgg aaacccggcg cccagatcta catcgcttc atgcaggagc acacctgcta
601 cgatgccatg gcaactagct ccaagctagt catcttcgac accatgctgg agatcaagaa
661 ggccttcttt gctctggtgg ccaacggtgt gcgggcagcc cctctatggg acagcaagaa
721 gcagagcttt gtggggatgc tgacctcac tgacttcac ctggtgctgc atcgctacta
781 caggcccccc ctggtccaga tctatgagat tgaacaacat aagattgaga cctggaggga
841 gatctacctg caaggctgct tcaagcctct ggtctccatc tctcctaag atagcctgtt
901 tgaagctgtc tacaccctca tcaagaaccg gatccatcgc ctgcctgttc ttgaccgggt
961 gtcaggcaac gtactccaca tctcacaca caaacgcctg ctcaagttcc tgcacatctt
1021 tggttccctg ctgccccggc cctccttcct ctaccgcact atccaagatt tgggcatcgg
1081 cacattccga gacttggtgt tgggtgctgga gacagcacc atcctgactg cactggacat
1141 ctttgtggac cggcgtgtgt ctgcactgcc tgtggtcaac gaatgtggtc aggtcgtggg
1201 cctctattcc cgctttgatg tgattcacct ggctgcccag caaacctaca accacctgga
1261 catgagtgtg ggagaagccc tgaggcagag gacactatgt ctggaggag tcctttcctg
1321 ccagccccac gagagcttgg gggaagtgat cgacaggatt gctcgggagc aggtacacag
1381 gctggtgcta gtggacgaga cccagcatct cttgggcgtg gtctccctct ccgacatcct
1441 tcaggcactg gtgctcagcc ctgctggcat cgatgccctc ggggcctgag aagatctgag
1501 tcctcaatcc caagccacct gcacacctgg aagccaatga agggaaactg agaactcagc
1561 cttcatcttc cccaccccc atttgctggt tcagctatga ttcaggtagg ctctgccttg
1621 ggccatgaca ccagcctctt agtcttc

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